

PATENT ABSTRACTS OF JAPAN

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(54) ELECTROCHROMIC DISPLAY DEVICE

(57)Abstract:

PURPOSE: To obtain a long-life display device which prevents coloring by reduction of transparent electrodes, dislodging thereof from a transparent electrode, etc. by coating the surface of the transparent electrodes of an electrochromic display device (ECD) with a transparent protecting film which is electrochemically inert.

CONSTITUTION: After transparent electrodes 2 consisting of metal oxide such as In_2O_3 are formed on a transparent substrate 1, a transparent protecting film 3 such as gold or silver which is electrochemically inert is formed on the electrodes 2 to about 150\AA ; thickness by a vacuum vapor deposition method, a sputtering method, etc. An EC layer such as WO_3 is formed on the film 3, then a substrate 7 having a counter electrode 6 and the substrate 1 are sealed by means of a spacer 8 by sandwiching a solid, semi-solid or liquid electrolyte therebetween. Thus coloring of the electrodes 2 on account of their conversion to the metal by reduction, generation of H_2 or the like and the stripping of the electrodes from the substrate 1 are prevented.

